Cover Letter

03-19-19 EPA has requested further enhancement of the SDS for the NCS to specify a requirement for chemically impervious gloves to be used when handling this material to prevent dermal exposure. The modified SDS for this material has been attached to this submission.

11-15-18 This PMN modification / re-submittal is in response to EPA expressed concerns regarding the potential for groundwater contamination with this material. This amendment is in response to that concern and also includes PMN and analogue mutagenicity testing results:

8-20-18 This PMN modification / re-submittal is the result of a collaboration between the EPA (Kathy Schecter @ 202-564-8589) and CAS that resulted in a new CASRN and CAS Name for the molecule as the initial CAS Name, assigned in 2004, did not cover all potential configurations the material might take.



| | | | | i ago i | | | | | | | |
|--|---|---|--|---|---|--|--|--|--|--|--|
| | | | | Form App | proved. | O.M.B. Nos. 2 | 070-0012 and 2070-0038 | | | | |
| U.S. ENVIRONMEN | TAL PROTECTION A | AGENC | Υ | | | AGE | NCY USE ONLY | | | | |
| EPA | PREM | MANUFA NOTIC | | E | Date | of receipt: | 03/19/2019 | | | | |
| EFA | FOR NEW C | HEMICAL | SUBST | ANCES | | | | | | | |
| completed, send this form to: Office of Poll Document Co US EPA, 1201 WASHINGTO | sending by Courier: ution Prevention and Toxics ontrol Office (7407M) I Constitution Ave NW N, D.C. 20460 bers: 202-564-8930/8940 | Document US EPA, 1 | Pollution Pr | by US Mail: evention and Toxics ffice (7407M) ylvania Ave NW 20460 | Submission Report Number | | | | | | |
| Total Number of Pages | | Fee Payn | nent ID N | lumber | I | | TS Number | | | | |
| 23 | | | | 18kk1a | | | | | | | |
| V | and the state of the state of the same state of | 44 db -4 da d- 1 | | INSTRUCTIONS | N | | | | | | |
| Before you complete this form (TSCA) Information Service b If a user fee has been remitted | , you should read the "Instructions y calling 202-554-1404, or faxing 2 | Manual for F 202-554-5603 indicate in the | Premanufact 3). e boxes abo | ure Notification" (the Instruve the TS-user fee identific | ations Ma | anual is available nber you have ge | istimates if you do not have actual data. from the Toxic Substances Control Act nerated. Remember, your user fee ID number | | | | |
| Part I – GENERAL INFOR | RMATION | | TEST DATA AND OTHER DATA | | | | | | | | |
| You must provide the currently correct Chemical Abstracts (CA) Name of the new chemical substance, even if you claim the identity as confidential. You may authorize another person to submit chemical identity information for you, but your submission will not be complete and the review will not begin until EPA receives this information. A letter in support of your submission should reference your TS user fee identification number. For all Section 5 Notice submissions (paper or electronic) you must submit an original notice including all test data; if you claimed any information as confidential, an original sanitized copy must also be submitted. | | | description related to commerce be submitted not summated should clearly of test data. | the health and environ a, use, or disposal of the ted for data in the oper aries of data. must be barly identify whether to composition of the test a and other data. Data of the Premanufacture I | own to or reasonably ascertainable by you, if these data are onmental effects on the manufacture, processing, distribution in the new chemical substance. Standard literature citations may en scientific literature. Complete test data (written in English), esubmitted if they do not appear in the open literature. You test data is on the substance or on an analog. Also, the sted material should be characterized. Following are examples ta should be submitted according to the requirements of the Notification Rule (40 CFR Part 720). | | | | | | |
| Part II – HUMAN EXPOS | URE AND ENVIRONMEN | ITAL | | Test Data (C | heck B | elow any inclu —– | ided in this notice) | | | | |
| If there are several manufactu | | | | Environmental fate d | ata | | Other Data | | | | |
| be described in Part II, section the sections as needed. | is A and B of this notice, repr | oduce | | Health effects data | | | Risk Assessments | | | | |
| Part III – LIST OF ATTAC For paper submissions, attach | | not | | Environmental effect | s data | | Structure/activity relationships | | | | |
| enough space to answer a qu sheet with the corresponding attachments, any test data or | estion fully. Label each contin section heading. In Part III, lis | nuation | X | Physical/Chemical located on the last | | | and chemical properties worksheet is | | | | |
| information included in the no | tice. | | | Test data not in the p | ossessi | on or control of | f the submitter | | | | |
| OPTIONAL INFORMATION You may include any informat | | sider in | | TYP | E OF N | OTICE (Check | Only One) | | | | |
| evaluating the new substance been provided for you to desc recycling information you may | ribe pollution prevention and | | X | PMN (Premanufactu | | , | | | | | |
| "Binding" boxes are included to indicate your willingness to be | throughout this form for you to bound to certain statements | you | | SNUN (Significant N | | , | 1 | | | | |
| make in this section, such as equipment The intention is accompany the development | s to reduce delays that routine | ely | | TMEA (Test Marketin | Ū | | , | | | | |
| Use Rules. Checking a "binding prohibit the submitter from late | ng" box in a PMN does not by er deviating from the informati | itself ion | | • | • | , | ption) @ 40 CFR 723.50(c)(2) | | | | |
| (except chemical identity) represents of exemption application contain information provided in | is (such as TMEA, LVE, LÓRE | EX) | | LVE Modification | . 5, 25 11 2 | | F | | | | |
| certain information provided in submitter when the Agency ap- | | | | LOPEY Modification | | | | | | | |

CONFIDENTIALITY CLAIMS

EPA FORM 7710-25 (Rev. 6-09)

You may claim any information in this notice as confidential. To assert a claim on the form, mark (X) the confidential box next to the information that you claim as confidential. To assert a claim in an attachment, circle or bracket the information you claim as confidential. If you claim information in the notices as confidential. you must also provide a sanitized version of the notice, (including attachments). For additional instructions on claiming information as confidential, read the Instructions Manual.

especially if the production volume "binding" box is chosen in a $\ensuremath{\mathsf{LVE}}$.

1 X

LOREX Modification

Mock Submission

Mark (X) if pending Letter of Support

IS THIS A CONSOLIDATED PMN (Y/N)?

of chemicals or polymers (Prenotice Communication # required, enter # on

Mark (X) if any information in this notice is claimed as confidential.



The public reporting and recordkeeping burden for this collection of information is estimated to average 93 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed EPA Form 7710-25 to this address.

CERTIFICATION -- A printed copy of this signature page, with original signature, must be submitted with CD or paper submission.

I hereby certify to the best of my knowledge and belief that all information entered on this form is complete and accurate. I further certify that, pursuant to 15 U.S.C. § 2613(c), for all claims for protection for any confidential information made with this submission, all information submitted to substantiate such claims is true and correct, and that it is true and correct that the person submitting the claim has:

- (i) taken reasonable measures to protect the confidentiality of the information;
- (ii) determined that the information is not required to be disclosed or otherwise made available to the public under any other Federal law
- (iii) a reasonable basis to conclude that disclosure of the information is likely to cause substantial harm to the competitive position of the person; and
- (iv) a reasonable basis to believe that the information is not readily discoverable through reverse engineering.

Any knowing and willful misrepresentation is subject to criminal penalty pursuant to 18 U.S.C. § 1001.

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| • | submitting a PN on statement tha | MN, Intermediate PMN, Consolidated PMN, or sat applies: | SNUN, c | heck the following user | fee |
|--|-------------------------------------|--|--------------|---------------------------------|--------------|
| | The Company na | med in Part I, Section A has remitted the fee of \$2500 spec | cified in 40 | CFR 700.45(b), or | |
| | | med in Part I, Section A has remitted the fee of \$1000 for a 40 CFR 700.45(b), or | ın Intermed | diate PMN (defined @ 40 CFR | 700.43) in |
| | The Company nar accordance with 4 | med in Part I Section A is a small business concern under 40 CFR 700.45(b). | 40 CFR 70 | 00.43 and has remitted a fee of | \$100 in |
| Low Rele | | ow Volume Exemption (LVE) application in ac Exposure Exemption (LoRex) application in ac statements: | | | |
| | | r submitting this notice intends to manufacture or import the Ill quantities solely for research and development, under the | | | al purposes, |
| | The manufacture | r is familiar with the terms of this section and will comply w | ith those to | erms; and | |
| | The new chemica | al substance for which the notice is submitted meets all app | plicable ex | emption conditions. | |
| | | is for an LVE in accordance with 40 CFR 723.50(c)(1), the ostance for commercial purposes within 1 year of the date | | | |
| | | | | | Confidential |
| Signature an Authorized C Signature Re | Official (Original | | Date | | |
| | | ES/Kenneth A Kirschenman | | 03/19/2019 | |



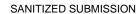
19P3 PMN Page 3

| Secti | ion / | A – SUBMITTER II | SENTI | | | ERAL IN | IFORMATION | | | |
|---|--|---|-----------|---------------|-----------------|-------------------|-----------------------|------------------|------------------|--------------|
| Seci | OH A | | | | | kt to any s | ubsection you clai | m as co | nfidential | |
| 1a. | | Person Submitt | ing No | tice (in | U.S.) | | | | | Confidential |
| Name | of Au | uthorized Official | (first) | Kenneth | | | (last) Kirsch | enman | | |
| Position | on | | Not A | Applicable | | | | | | |
| Comp | any | | DES | IGNER MO | DLECULES, IN | C. | | | | |
| Mailin | g Add | lress (number & street | 1008 | 0 WILLOW | V CREEK RD. | | | | | |
| City | | SAN DIEGO | | | State | CA | Postal Code | 31 | | |
| email | | kkirschenman@desig | nermole | culesinc.co | om | | | | | |
| b. | | Agent (if Applic | able) | | | | | | | Confidential |
| Name | of Au | uthorized Official | (first) | Kenneth | | | (last) Kirsch | enman | | |
| Positio | on | | VP - | Operations | s | | | | | |
| Comp | any | Designer Molecules, Inc. | | | | | | | | |
| Mailin | g Add | lress (number & street | 1008 | 0 Willow C | Creek Rd. | | | | |] [|
| City | | San Diego | | | State | CA | Postal Code | 9213 | 31 | |
| e-mail | | kkirschenman@desid | inermole | culesinc.co | om | Telepho | ne area code) | 8583 | 3481122 X 4704 | |
| C. | | Joint Submitter | | | ···· | (include | area code) | 1000 | | Confidential |
| If you | are s | ubmitting this notice as | | | mission, mark (| (X) | | | | |
| Name | of Au | uthorized Official | (first) |) | | | (last) | | | |
| Positio | nn . | | | | | | | | | |
| - | | | | | | | | | | |
| | Company | | | | | | | | | - Ц |
| Mailin | g Aac | lress (number & street |) | | | | | | | |
| City | | | | | State | | Postal Code | | | |
| e-mail | | | | | | Teleph (includ | none le area code) | | | |
| 2. | | Technical Conta | ct (in | U.S.) | | , | · | | | Confidential |
| | of Au | uthorized Official | | Kenneth | | | (last) Kirsche | enman | | |
| Positio | on | | | Operations | s | | | | | |
| Comp | anv | | | | | | | | | |
| | | Iress (number & street | | gner Molec | | | | | | |
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| City | | San Diego | | | State | CA Telepho | Postal Code | 9213 | 31 | |
| e-mail | | kkirschenman@desig | nermole | culesinc.co | om | | area code) | 8583 | 3481122 X 4704 | |
| 3. | | ou have had a prenotic notice and EPA assign | | | | 3 | | | Mark (X) if none | Confidential |
| J. | | er the number. | ieu a i c | , indiliber t | o trie riotice, | | | | X | |
| | | ou previously submitted mical substance cover | | | | XXX | | | Mark (X) if none | Confidential |
| 4. | exe | mption number assign | ed by EF | A. If you p | reviously | | | | | |
| | submitted a PMN for this substance enter the F assigned by EPA (i.e. withdrawn or incomplete | | | | | | | | | X |
| If you have submitted a notice of Bona fide intent to | | | | tent to | | | | Mark (X) if none | Confidential | |
| 5. manufacture or import for the chemical substance covered by this notice, enter the notice number assigned by EPA. | | | | | | X | | | | |
| 6. Type of Notice – Ma | | | | e – Mark (X) | I | | 1 | | | |
| | Mar | nufacture Only | Χ | | Import Only | | | | | |
| 1. | Bin | ding Option | X | 2. | Binding Optio | n | | 3. | Both | |



SANITIZED SUBMISSION

| Part I – GE | NERAL INFORM | | | |
|--|-------------------------|---|--|----------|
| Section B – CHEMICAL IDENTITY INFORMATION: | | | nemical Abstracts (CA) name of the some rules and conventions. | ubstance |
| Mark (X) the "Confid | lential" box next to an | y item you claim as o | confidential | |
| Complete either item 1 (Class 1 or 2 substances) or 2 (F | , , , , , | · · · · · · · · · · · · · · · · · · · | | |
| If another person will submit chemical identity information the name, company, and address of that person in a continuous company. | ntinuation sheet. | em 1 or 2), mark (X) | the box at the right. Identify | |
| Class 1 or 2 chemical substances (for definitions of 2 substances, see the Instructions Manual) | class 1 and class | Class 1 | Class 2 | СВІ |
| a. Class of substance - Mark (X) | | | X | |
| b. Chemical name (Currently correct Chemical Abstract substances. For Class 1 substances a CA Index Name Preferred Name must be provided, which ever is applicable. 1H-Pyrrole-2,5-dione, 1,1'-C36-alkylenebis- | ne must be provided. | For Class 2 substan | ces either a CA Index Name or CA | |
| | | | | |
| CAS Registry Number (if a number already exists for | r the substance) | 1911605-95-2 | | |
| c. Please identify which method you used to develop o Method 1 (CAS Inventory Expert Service - a copy of Identification report obtained from the CAS Inventory Services must be submitted as an attachment to this | the Expert | chemical identity info IES Order Number | Method 2 (Other Source) | k one). |
| Enter Attachment filename for Part I, Section B, 1. c. | | Original Document: | 12 TS-18KK1A New Naming.pdf | |
| d. Molecular formula XXX | | | | X |
| e. For a class 1 substance, provide a complete and col representative or partial chemical structure diagram, | | | | X |
| See Attachment (Sanitized Document: 1 R1155 Structur) | e-R.pdf | | | |
| Enter Attachment filename for Part I, Section B, 1. e. | | | | |





PMN Page 4a

| For a class 2 substance - (1) List the immediate precursor substances with their respective CAS Registry Numbers. (2) Describe the nature of the reaction or process. (3) Indicate the range of composition and the typical composition (where appropriate). | Confidential |
|--|--------------|
| e. (1) List the immediate precursor substance names with their respective CAS Registry Numbers. | X |
| xxx | |
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| Enter Attachment filename for Part I, Section B, 1. e. (1) | |
| e. (2) Describe the nature of the reaction or process. | X |
| xxx | |
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| Enter Attachment filename for Part I, Section B, 1. e. (2) | |
| e. (3) Indicate the range of composition and the typical composition (where appropriate). | X |
| XXX | |
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| Enter Attachment filename for Part I, Section B, 1. e. (3) | |



PMN Page 6 Part I -- GENERAL INFORMATION -- Continued

| Section B CHEMICAL IDENTITY INFORMATION Continued | | | | |
|--|----------------------------|------------------------------|-----------------------------|-------------------|
| Impurities (a) - Identify each impurity that may be reasonably anticipated to be present purpose. Provide the CAS Registry Number if available. If there are unit (b) - Estimate the maximum weight % of each impurity. If there are unidentifications. | dentified impurities, ente | r "unidentified." | | cial |
| Impurity (a) | | AS Registry Number (a) | Maximum Percent % (b) | Confi- dential |
| Heptane | | 142-82-5 | 0.3 | |
| 2,5-Furandione | | 108-31-6 | 0.1 | |
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| Mark (X) this box if the data continues on the next page. | | | | |
| Enter Attachment filename for Part I, Section B, 3. | | | | |
| 4. Synonyms - Enter any chemical synonyms for the new chemical identified in sub- | section 1 or 2. | | | |
| | | | | |
| Enter Attachment filename for Part I, Section B, 4. | | | | |
| 5. Trade identification - List trade names for the new chemical substance identified R1155, R1091, BMI-689, BMI-695, X-BMI, | n subsection 1 or 2. | | | |
| | | | | |
| Enter Attachment filename for Part I, Section B, 5. | | | | <u>. LL</u> |
| Generic chemical name - If you claim chemical identify as confidential, you must specific chemical identity of the new chemical substance Substance Inventory, 1985 Edition, Appendix B for guidance Inventory, 1985 Edition, Appendix B for guidance Inventory. | to the maximum extent | possible. Refer | | |
| Enter Attachment filename for Part I, Section B, 6. | | | | |
| Byproducts - Describe any byproducts resulting from the manufacture, processin CAS Registry Number if available. | g, use, or disposal of the | | | ide the |
| Byproduct (1) | | CAS Reg | istry Number (2) | Confi- dential |
| | | | | |
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| Mark (X) this box if the data continues on the next page. | | | | |



| Section B CHEMICAL IDENTITY INFORMATION Continued 2. Polymers (For a definition of polymer, see the Instructions Manual.) | | | | | | |
|--|--------------------|-----------------|--------------------------|---------------------|--------------------------|---------|
| | | | | | | |
| a. Indicate the number-average weight of the lowest molecular weight composition of the | nolymer v | ou intend to | manufactu | rο | Confide | ntial |
| Indicate maximum weight percent of low molecular weight species (not including residu below 500 and below 1,000 absolute molecular weight of that composition. | | | | | | |
| Describe the methods of measurement or the basis fo | r your es | timates: | | | | |
| GPC Other (Specify Below) | | | | | | |
| Specify Other: | | | | | | |
| (i) lowest number average molecular weight: (ii) maximum weight % below 500 molecular weight: | (iii |) maximum w | veight % be weight | | 00 molecu | ılar |
| | | | | | | |
| Enter Attachment filename for Part I, Section B, 2. a. b. You must make separate confidentiality claims for monomer or other reactant identity, co | | | | | | 4 |
| Provide the specific chemical name and CAS Registry Number (if a number exists manufacture of the polymer. Mark (X) this column if entry in column (1) is confidential. Indicate the typical weight percent of each monomer or other reactant in the polym (4) - Choose "yes" from drop down menu if you want a monomer or other reactant used the polymer description on the TSCA Chemical Substance Inventory. Mark (X) this column if entries in columns (3) and (4) are confidential. Indicate the maximum weight percent of each monomer or other reactant that may manufactured for commercial purposes. Mark (X) this column if entry in column (6) is confidential. | ier. I at two w | reight percent | t or less to | be liste | d as part o | of |
| Monomer or other reactant specific chemical name | | | Include in | 251 | Max | 0.01 |
| (1) | CBI (2) | composition (3) | identity (4) | CBI (5) | residual (6) | CBI (7) |
| CAS Registry Number (1) CAS Registry Number (1) | | | | | | |
| | | | | | | |
| CAS Registry Number (1) | | | | | | |
| CAS Registry Number (1) | | | | | | |
| CAS Registry Number (1) | | | | | | |
| Mark (X) this box if the data continues on the next page. | | | | | | L |



PMN Page 5a

| c. Please identify which method you used to develop or obtair (check one). | the specified cher | nical identity information reported in this notice | СВІ |
|--|----------------------|--|-----|
| Method 1 (CAS Inventory Expert Service | | | |
| - a copy of the identification report obtained from CAS Inventory Expert Service must be | IES Order Number | Method 2 (other source) | |
| submitted as an attachment to this notice) | | (other source) | |
| Enter Attachment filename for Part I, Section B, 2. c. | | | |
| d. The currently correct Chemical Abstracts (CA) name for th | e polymer that is co | onsistent with TSCA Inventory listings for similar | |
| polymers. | | | |
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| CAS Registry Number (if a number already exists for the | substance) | | |
| e. Provide a correct representative or partial chemical structi | | mplete as can be known, if one can be reasonably | |
| ascertained. | | <u> </u> | |
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| Enter Attachment filename for Part I, Section B, 2. 6 | э. | | |



| PMIN2019P7 | | | i Page | | | | | | | | | |
|---|--|---|--|--|--|--|------------------------------------|----------------------|-------------------|-----------------|-----------------------|--------|
| Part I Gi | | | | | N Co | ntin | ued | | | | | |
| Section C PRODUCTION, IMPORT, AND | USE | INFORM | MATION | | | | 1 | | | | | |
| The information on this page refers to consolidated | | | ` ' | X 1 | 2 | | 3 | 4 | | 5 | 6 | |
| Mark (X) the "Con 1. Production volume Estimate the maximum production for any consecutive 12-month period during For a Low Volume Exemption application, if you che volume and mark (x) in the binding box. If granted, | duction v g the firs noose to | olume dur st three ye have you | ring the first ars of proce r notice re | st 12 moduction. | onths of pro | oduction should | n. Also e be on 1 | estimate 00% ne | w chem | ical sub | ostance | basis. |
| Maximum first 12-month production (kg/yr) (100% new chemical substance basis) | | | | | ction (kg/yr ance basis | | С | onfiden | tial | | ling Opt //ark (X) | |
| xxx xxx X | | | | | | | | | | | | |
| Enter Attachment filename for Part I, Section C, 1. Original Document: 4 TS-18KK1A Tech Data Sheet CBI | | | | | | | | | | | | |
| to each category, the formulation of the new substaconfidential. a. (1)Describe each intended category of use (2)Mark (X) this column if entry column (1) if (3)Indicate your willingness to have the inform (4)Estimate the percent of total production if (5)Mark (X) this column if entry in column (4)Estimate the percent of the new substan commercial purposes at sites under your (7)Mark (X) this column if entry in column (8)Indicate % of product volume expected if willingness to have the use type provided (9)Mark (X) this column if entry(ies) in column (9)Mark (X) this column if entry(ies) in column | of the noise confident of the firmation for the file of the file o | ew chemic lential busi provided i rst three yi fidential bi rmulated ii associate fidential bi sted "use" binding. | cal substar iness infor in column ears devo usiness in n mixtures d with eac usiness in sectors. N | nce by furmation (1) bind ted to ea formation, suspect categ formation lark more | unction and (CBI). ing. ach catego in (CBI). nsions, em ory of use. in (CBI). e than one | d applications applied | ation. se. | ons, or g | jels as n | nanufac | ctured fo | |
| (9)Mark (X) this column if entry(ies) in column (8) is (are) confidential business information (CBI). Category of use (1) (by function and application i.e. a dispersive dye for CBI Option CBI Form- CBI (8) Category of use (1) CBI Option CBI Form- CBI (8) CBI CBI | | | | | | | | | | | | |
| finishing polyester fibers) | (2) | Mark (X) (3) | % (4) | (5) | ulation (6) | (7) | Site- limited | Con- sumer* | Industrial | Com- mercial | Binding Option | (9) |
| XXX | X | | XXX | X | XXX | X | xxx | XXX | XXX | XXX | | X |
| | | | | | | | | | | | | |
| * If you have identified a "consumer" use, please prov consumer products. In addition include estimates of t the chemical reactions by which this substance loses | he conc | entration o | of the new | chemic | al substand | | | | | | | |
| Mark (X) this box if the data continues on the next page | | | | | | | | | | | | |
| b. Generic use description If you claim any category Read the Instruction Man | | | | | | ntial, ei | nter a g | eneric d | lescription | on of the | at categ | ory. |
| Enter Attachment filename for Part I, Section | C, 2. b. | San | itized Doo | umant. | 2 TQ_10KK | (14 1 10) | Evam | | of CE | Bl | Σ | 3 |
| Hazard Information Include in the notice a copy of data sheet, or other information which will be provide regarding protective equipment or practices for the sa hazard information you include. | of reasor d to any afe hand | nable facsi person wl | mile of an ho is reaso | y hazaro onably li | kely to be | stateme expose | ent, labe d to this estance. | l, mater s substa | rial safet nce | у | Binding Mark | Option |
| Mark (X) this box if you attach hazard informa | tion | | | | | | | | | 1 | - 1 | 1 |



SANITIZED SUBMISSION PMN Page 8 Part II-- HUMAN EXPOSURE AND ENVIRONMENTAL RELEASE Mark (X) the "Confidential" box next to Section A -- INDUSTRIAL SITES CONTROLLED BY THE SUBMITTER any item you claim as confidential 2 X 1 The information on pages 8 and 8a refer to consolidated chemical number(s): 3 Complete section A for each type of manufacture, processing, or use operation involving the new chemical substance at industrial sites you control. Importers do not have to complete this section for operations outside the U.S.; however, you may still have reporting requirements if there are further industrial processing or use operations after import. You must describe these operations. See instructions manual 1. Operation description Confia. Identity -- Enter the identity of the site at which the operation will occur. dential Name DESIGNER MOLECULES, INC. Site address (number and 10080 WILLOW CREEK RD. City County SAN DIEGO, SAN DIEGO ZIP code State CA 92131 If the same operation will occur at more than one site, enter the number of sites. Identify the additional sites on a continuation sheet, and if any of the sites have significantly different production rates or 1 operations, include all the information requested in this section for those sites as attachments. \rightarrow Mark (X) this box if the data continues on the next page. b. Type --Χ Manufacturing Processing Use Mark (X) Confic. Amount and Duration -- Complete 1 or 2 as appropriate dential Maximum kg/batch (100% new chemical Hours/batch Batches/year 1. Batch substance) X XXX XXX XXX Maximum kg/day Hours/day Days/year (100% new chemical substance) 2. Continuous Mark (X) to indicate your willingness to have your process description binding. d. Process description Diagram the major unit operation steps and chemical conversions. Include interim storage and transport containers (specify- e.g. 5 gallon pails, 55 gallon drum, rail car, tank truck, etc.). Provide the identity, the approximate weight (by kg/day or kg/batch on a 100% new chemical substance basis), and entry point of all starting materials and feedstocks (including reactants, solvents, catalysts, etc.), and of all products, recycle streams, and wastes. Include cleaning chemicals (note frequency if not used daily or per batch.). Identify by number the points of release, including small or intermittent releases, to the environment of the new chemical substance. If releasing to two media at the same step, assign a second release number for the second medium Χ XXX



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| Diagram of the major unit operation steps. | | Confidential X |
|---|--|----------------|
| See Attachment (Sanitized Document: 3 TS-18KK1A Manf Flow-R.pdf | | |
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| Enter Attachment filename for Part II, Section A, 1. d. | Societized Decuments 2 TS 49VV44 Most Flow D | pdf X |
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N2019P9 PMN Page 9

| I with age t | <i>,</i> | | | | | | |
|---|---------------|----------|--------|---------|---|---|--|
| Part II HUMAN EXPOSURE AND ENVIRONM | IENTAL | RELEAS | SE Cor | ntinued | | | |
| Section A INDUSTRIAL SITES CONTROLLED BY THE SUBMIT | TTER (| Continue | d | | | | |
| The information on pages 9 and 9a refer to consolidated chemical number(s): | X 1 | 2 | 3 | 4 | 5 | 6 | |

- 2. Occupational Exposure -- You must make separate confidentiality claims for the description of worker activity, physical form of the new chemical substance, number of workers exposed, and duration of activity. Mark (X) the "Confidential" box next to any item you claim as confidential.
 - (1) -- Describe the activities (i.e. bag dumping, tote filling, unloading drums, sampling, cleaning, etc.) in which workers may be exposed to the substance.
 - (2) -- Mark (X) this column if entry in column (1) is confidential business information (CBI).
 - (3) -- Describe any protective equipment and engineering controls used to protect workers.
 - (4) and (6) -- Indicate your willingness to have the information provided in column (3) or (5) binding.
 - (5) -- Indicate the physical form(s) of the new chemical substance (e.g., solid: crystal, granule, powder, or dust) and % new chemical substance (if part of a mixture) at the time of exposure.
 - (7) -- Mark (X) this column if entries in columns (3) and (5) are confidential business information (CBI).
 - (8) -- Estimate the maximum number of workers involved in each activity for all sites combined.
 - (9) -- Mark (X) this column if entry in column (8) is confidential business information (CBI).
 - (10) and (11) -- Estimate the maximum duration of the activity for any worker in hours per day and days per year.
 - (12) -- Mark (X) this column if entries in columns (10) and (11) are confidential business information (CBI).

| Worker activity (i.e., bag dumping, filling | | Protective Equipment/ | Binding Option | Option Torin(S) | Binding Option | СВІ | # of Workers | СВІ | Maximum | Duration | СВІ |
|---|---------|-----------------------------------|-----------------|------------------|-------------------|----------|-----------------|-----|-----------------|-----------------|------|
| drums) (1) | (2) (3) | | Mark (X) (4) | substance (5) | Mark (X) (6) | (7) | Exposed (8) | (9) | Hrs/Day (10) | Days/Yr (11) | (12) |
| XXX | X | XXX | | XXX | | Х | XXX | X | XXX | XXX | Х |
| XXX | X | XXX | | XXX | | Х | XXX | X | XXX | XXX | Х |
| XXX | X | XXX | | xxx | | Х | XXX | X | XXX | XXX | X |
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| Mark (X) this box | if the | data continues on the next page | L e. | l | | <u> </u> | | l | | | 1 |
| | | ame for Part II, Section A on the | | nage 9a | | | | | 1 | | |



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PMN Page 9a

- 3. Environmental Release and Disposal -- You must make separate confidentiality claims for the release number and the amount of the new chemical substance released and other release and disposal information. Mark (X) the "Confidential" box next to each item you claim as confidential.
 - (1) -- Enter the number of each release point identified in the process description, part II, section A, subsection 1d(3).
 - (2) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology (in kg/day or kg/batch).
 - (3) -- Mark (X) this column if entries in columns (1) and (2) are confidential business information (CBI).
 - (4) -- Identify the media (stack air, fugitive air (optional-see Instruction Manual), surface water, on-sité or off-site land or incineration, POTW, or other (specify)) to which the new substance will be released from that release point.
 - (5) -- a. Describe control technology, if any, and control efficiency that will be used to limit the release of the new substance to the environment. For releases disposed of on land, characterize the disposal method and state whether it is approved for disposal of RCRA hazardous waste. On a continuation sheet, for each site describe any additional disposal methods that will be used and whether the waste is subject to secondary or tertiary on-site treatment. b. Estimate the amount released to the environment after control technology (in kg/day).
 - (6) -- Mark (X) this column if entries in columns (4) and (5) are confidential business information (CBI).
 - (7) -- Identify the destination(s) of releases to water. Please supply NPDES (National Pollutant Discharge Elimination System) numbers for direct discharges or NPDES numbers of the POTW (Publicly Owned Treatment Works). Mark (X) if the POTW name or NPDES # is confidential business information (CBI).

| Release Number | | | СВІ | Medium of release e.g. Stack air | Contro | Control technology and efficiency (you may wish to optionally attach efficiency data) | | | | | | |
|-------------------|------------------------------------|--------------|--------------|-------------------------------------|--|---|---|-------|------------------|------------------------|------|-----|
| (1) | (2a) | (2b) | (3) | (4) | | (5a) | | (5a) | | Binding Mark (X) | (5b) | (6) |
| M-1 | | 0.25 | | Off-site Incineration | | All NCS contaminated materials are store sealed before disposal | | | None expected | | | |
| M-2 | 0.05 | | | Fugitive Air | See contir <p9asa3< td=""><td colspan="2">See continuation page. id: <p9asa3(5a)c1r2></p9asa3(5a)c1r2></td><td></td><td>None expected</td><td></td></p9asa3<> | See continuation page. id: <p9asa3(5a)c1r2></p9asa3(5a)c1r2> | | | None expected | | | |
| M-3 | | 0.2 | | Off-site Incineration | See contir <p9asa3< td=""><td colspan="2">See continuation page. id: <p9asa3(5a)c1r3></p9asa3(5a)c1r3></td><td></td><td>None expected</td><td></td></p9asa3<> | See continuation page. id: <p9asa3(5a)c1r3></p9asa3(5a)c1r3> | | | None expected | | | |
| M-4 | | 1 | | Off-site Incineration | See contir <p9asa3< td=""><td colspan="2">See continuation page. id: <p9asa3(5a)c1r4></p9asa3(5a)c1r4></td><td></td><td>None expected</td><td></td></p9asa3<> | See continuation page. id: <p9asa3(5a)c1r4></p9asa3(5a)c1r4> | | | None expected | | | |
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| | . , | | | on the next page. | | | • | | | | | |
| (7) Mark | (X) the des | stination(s) | of releas | ses to water. | | | | NPDES | S# | CBI | | |
| | POTWpro name(s) | ovide | | | | | | | | | | |
| | Navigable waterway provide name(s) | | | | | | | | | | | |
| | OtherSpe | cify | | | | | | | | | | |
| | Enter Attachm | ent filename | for Part II, | Section A. | | | | | | | | |



| ID P9ASA3(5a)C1R2 | Field Part II, Section A, B.(5a) Control Technology & Efficiency, Row 2 |
|--|---|
| Air sparge is directly vented into the air stack. Not | a likely NCS emission source due to high temperature resistance of NCS. |
| 7 in opargo to another voltage into the all classic rect | a moly 1900 dimedian course due to high temperature recetarios di 1900. |
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| ID P9ASA3(5a)C1R3 | Field | Part II, Section A, B.(5a) Control Technology & Efficiency, Row 3 |
|---|-------------|--|
| NCS is non-volatile at packaging temperatures. I sealed containers for off-site incineration. | M-3 relates | to any spills that might occur during packaging. Material is wiped up and collected in |
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| ID P9ASA3(5a)C1R4 | Field | Part II, Section A, B.(5a) Control Technology & Efficiency, Row 4 |
|---|------------|--|
| Solvent washing of the reactor contains NCS. The | e wash sol | vent is collected and treated as hazardous waste (off-site incineration) |
| Corroll mashing of the reaster contains rece. The | , waon oo | vent to contacted and troated at mazarastic maste (on one membration) |
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| PMN Page 10 | | | | |
|---|---|--|--|------------------------|
| Part II HUMAN EXPOSURE AND ENVIRONM | ENTAL RELEA | SE – Contini | ued | |
| Section B INDUSTRIAL SITES CONTROLLED BY OTHERS | □. | | <u> </u> | _ |
| The information on pages 10 and 10a refer to consolidated chemical number(s): Complete section B for typical processing or use operations involving the new chemical complete this section for operations outside the U.S.; however, you must report any pro Complete a separate section B for each type of processing, or use operation involving to more than one site describe the typical operation common to these sites. Identify additionally. Operation Description To claim information in this section as confidential. | cessing or use active The new chemical sub Tonal sites on a conti | you do not contrities after import bstance. If the snuation sheet. | t. See the Instructions ame operation is perf | s Manual. formed at |
| confidential. (1) Diagram the major unit operation steps and chemical conversions, includin pails, 55 gallon drums, rail cars, tank trucks, etc). On the diagram, identify (2) Either in the diagram or in the text field 1(b) below, provide the identity, the chemical substance basis), and entry point of all feedstocks (including read streams, and wastes. Include cleaning chemicals (note frequency if not use (3) Either in the diagram or in the text field 1(b) below, identify by number the environment of the new chemical substance. (4) Please enter the # of sites (remember to identify the locations of these site | g interim storage ar by letter and briefly approximate weigh stants, solvents and ed daily or per batch points of release, inc | nd transport cont describe each w t (by kg/day or k catalysts, etc) a). cluding small or | cainers (specify - e.g. corker activity. g/batch, on an 100% nd all products, recyc | 5 gallon new cle |
| | Number of Sites | XXX | Confidential | X |
| See Attachment (Sanitized Document: 17 TS-18KK1A Processing-R.pdf) | | | | |
| 1(b). (Optional) This space is for a text description to clarify the diagram above. XXX | | | Confidential | X |
| Enter Attachment filename for Part II. Section B on the bottom of page 10a | izad Dagumant: 17 | TC 19KK1A Dro | acceing P ndf | Y |



PMN Page 10a

Worker Exposure/Environmental Release

- (1) -- From the diagram above, provide the letter for each worker activity. Complete 2-8 for each worker activity described.
- (2) -- Estimate the number of workers exposed for all sites combined.
- (4) -- Estimate the typical duration of exposure per worker in (a) hours per day and (b) days per year.
- (6) -- Describe physical form of exposure and % new chemical substance (if in mixture), and any protective equipment and engineering controls, if any, used to protect workers.
- (7) -- Estimate the percent of the new substance as formulated when packaged or used as a final product.
- (9) -- From the process diagram above, enter the number of each release point. Complete 9-13 for each release point identified.
- (10) -- Estimate the amount of the new substance released (a) directly to the environment or (b) into control technology to the environment (in
- (12) -- Describe media of release i.e. stack air, fugitive air (optional-see Instructions Manual), surface water, on-site or off-site land or incineration, POTW, or other (specify) and control technology, if any, that will be used to limit the release of the new substance to the environment.
- (14) -- Identify byproducts which may result from the operation.
 - (3), (5), (8), (11), (13) and (15) -- Mark (X) this column if any of the proceeding entries are confidential business information (CBI).

| Letter of Activity | # of Workers Exposed | СВІ | | tion of osure | СВІ | Protecti | ive Equip./Engineering Controls/Physical Form | % new substance | % in Formulation | СВІ | | |
|---|----------------------------|-------------|------------|------------------|--------|------------------------|--|-----------------|------------------|-----|--|--|
| (1) | (2) | (3) | (4a) | (4b) | (5) | | (6) | (6) | (7) | (8) | | |
| P-A | 5 | | 0.25 | 250 | | See conti | nuation page. id: <p10asb2(6)c1r1></p10asb2(6)c1r1> | 100 | 50 | | | |
| P-C | 5 | | 2 | 250 | | Collection shipping of | n of finished NCS-containing products in containers (jars, syringes), Paste | 100 | 50 | | | |
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| Release Number | | | | | sed | СВІ | Media of Release & Control Technology | | | | | |
| (9) | (1 | 0a) | | (10b) | | (11) | (12) | | | | | |
| P-1 | (| 0 | | 2 | | | Off-site Incineration All waste collected from transfer, equipment cleaning, etc., collected and managed as hazardous waste (incineration) | | | | | |
| P-2 | | | | 0 | | | Fugitive Air NCS is not volatile at processing temperatures and will not emit. | | | | | |
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| | Mark (X) thi | s box if th | ne data co | ntinues or | the ne | xt page. | | | | | | |
| (14) Byp | Byproducts: None known | | | | | | | | (15) CBI | | | |
| Enter Attachment filename for Part II, Section B. | | | | | | | | | | | | |



| ID P10ASB2(6)C1R1 | Field | Part II, Section B, 2.(6) Protective Equip./Eng. Controls, etc., Row 1 |
|---|------------|--|
| Resin mixing -weighing/transferring of NCS to mi Non-volatile NCS at room temperature * Nitrile gloves * Eye protection * Protective clothing/cleanroom apparel, Liquid | xing vesse | |
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SANITIZED SUBMISSION

OPTIONAL POLLUTION PREVENTION INFORMATION

To claim information in the following section as confidential, bracket (e.g. {}) the specific information that you claim as confidential.

In this section you may provide information not reported elsewhere in this form regarding your efforts to reduce or minimize potential risks associated with activities surrounding manufacturing, processing, use and disposal of the PMN substance. Please include new information pertinent to pollution prevention, including source reduction, recycling activities and safer processes or products available due to the new chemical substance. Source reduction includes the reduction in the amount or toxicity of chemical wastes by technological modification, process and procedure modification, product reformulation, and/or raw materials substitution. Recycling refers to the reclamation of useful chemical components from wastes that would otherwise be treated or released as air emissions or water discharges, or land disposal. Quantitative or qualitative descriptions of pollution prevention, source reduction and recycling should emphasize potential risk reduction in addition to compliance with existing regulatory requirements. The EPA is interested in the information to assess overall net reductions in toxicity or environmental releases and exposures, not the shifting of risks to other media (e.g., air to water) or nonenvironmental areas (e.g., occupational or consumer exposure). To the extent known, information about the technology being replaced will assist EPA in its relative risk determination. In addition, information on the relative cost or performance characteristics of the PMN substance to potential alternatives may be provided.

Describe the expected net benefits, such as

- (1) an overall reduction in risk to human health or the environment:
- (2) a reduction in the generation of waste materials through recycling, source reduction or other means;
- (3) a reduction in the use of hazardous starting materials, reagents, or feedstocks:
- (4) a reduction in potential toxicity, human exposure and/or environmental release; or

| (5) the extent to which the new chemical substance may be a substitute for a health or the environment. | an existing substance that poses a greater overall risk to huma | an |
|--|---|------|
| Information provided in this section will be taken into consideration during and Pollution Prevention Guidance manual for guidance and examples. | ng the review of this substance. See PMN Instructions Mar | nual |
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| Enter Attachment filename for Pollution Prevention Page 11. | | |



2019P12 **PMN Page 12**

Attach continuation sheets for sections of the form, test data and other data (including physical/chemical properties and structure/activity information), and optional information after this page. Clearly identify the attachment and the section of the form to which it relates, if appropriate. Number consecutively the pages of any paper attachments. In the Number of Pages column below, enter the inclusive page numbers of each attachment for paper submissions or enter the total number of pages for each attachment for electronic submissions. Electronic attachments can be identified by filename.

Part III -- LIST OF ATTACHMENTS

Mark (X) the "Confidential" box next to any attachment name or filename you claim as confidential. Read the Instructions Manual for guidance on how to claim any information in an attachment as confidential. You must include with the sanitized copy of the

notice form a sanitized version of any attachment in which you claim information as confidential.

| # | Attachment Name | Attachment Filename | Number of Pages | Associated PMN Section Number | СВ | |
|----|--|---|-----------------|---|----|--|
| 1 | TS-18KK1A technical data sheet | TS-18KK1A Tech Data Sheet.pdf | 1 | Production Information Section (Chemical 685517) | | |
| 2 | NCS SDS (revised) | TS-18KK1A Revised GHS SDS.pdf | 7 | Hazard Information Section (Chemical 685517) | | |
| 3 | Use and application examples | TS-18KK1A Use Examples-R.pdf | 1 | Use Information (Chemical 685517) | | |
| 4 | TS-18KK1A appearance | TS-18KK1A Appearance.pdf | 1 | Physical and Chemical Properties Worksheet Continued (Chemical | | |
| 5 | TS-18KK1A DSC - catalyzed | TS-18KK1A DSC - Catalyzed.pdf | 1 | Physical and Chemical Properties Worksheet Continued (Chemical | | |
| 6 | TS-18KK1A FTIR | TS-18KK1A FTIR.pdf | 1 | Physical and Chemical Properties Worksheet Continued (Chemical | | |
| 7 | TS-18KK1A GPC | TS-18KK1A GPC.pdf | 1 | Physical and Chemical Properties Worksheet Continued (Chemical | | |
| 8 | TS-18KK1A Weight Loss (Dynamic TGA) | TS-18KK1A TGA - NEAT.pdf | 1 | Physical and Chemical Properties Worksheet Continued (Chemical | | |
| 9 | TS-18KK1A Metallic impurities (ICP/MS) | TS-18KK1A ICP.pdf | 1 | Physical and Chemical Properties Worksheet Continued (Chemical | | |
| 10 | Chemical structure diagram | R1155 Structure-R.pdf | 1 | Class 1 or 2 Substances Chemical Structure Diagram (Chemical | | |
| 11 | Explanation of new naming activities | TS-18KK1A New Naming.pdf | 1 | Class 1 or 2 Substances ID Method (Chemical 685517) | | |
| 12 | TS-18KK1A manufacturing process flow | TS-18KK1A Manf Flow-R.pdf | 1 | Submitter Controlled Operations | | |
| 13 | Processing of NCS by others | TS-18KK1A Processing-R.pdf | 1 | Industrial Sites Controlled By Others (Processing) | | |
| 14 | TS-18KK1A CBI Substantiation Worksheet | TS-18KK1A CBI Substiantiation Worksheet.pdf | 5 | Additional Attachments | | |
| 15 | 11-15-18 Additional information in response to | P-18-0120 Additional | 2 | Additional Attachments | | |
| 16 | 11-15-18 GPC traces for the PMN chemical and analogues | Addeneum 1 - GPC Trace.pdf | 5 | Additional Attachments | | |
| 17 | 11-15-18 Ames test results for PMN substance | Addendum 2 - BMI-689 Ames Test Report.pdf | 34 | Additional Attachments | | |
| 18 | 11-15-18 Ames test report for PMN analogue | Addendum 3 - BMI-1500 Ames Test Report.pdf | 34 | Additional Attachments | | |
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| | Mark (X) this box if the data continues on the r | ext page. | • | | | |

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PMN2019P13

PMN Page 13

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|--|--|--|--|--|---|---|---|---|--|---|------------------------|
| | | PHYSIC | AL AND | CHEMICA | L PROPER | | RKSHEE | T | | | |
| The information on | this | page refers to ch | emical r | number(s): | X 1 | 2 | 3 | 4 | 5 | 6 | |
| To assist EPA's review notice. Identify the proporoperty is claimed as provided. These measiformulations should be you do so, as it will simplement to your subsupplement to your subsupplement to your subsupplement. | perty m confide ured pr so not aplify th | neasured, the value of the control o | of the propher of the propher of the near of the near of the | perty, the units mber (found on it (100% pure) You are not re fidential inform | s in which the p n page 12) in c chemical subs equired to subr nation is proper | property is no column (b). It is tance. Property with this workly protected | neasured (as The physical perties that a ksheet; howe d. You should | s necessa state of t ire measu ever, EPA | ary), ai the ne ured fo A stron | nd whether or eat substance or mixtures or ngly recommen | not the should be |
| | perty (a) | | Unit | Mark X if Provided | Attachment Number (b) | | Value (c) | | | Measured or Estimate (M or E) | CBI Mark (X) (d) |
| Physical state of nea | at sub | stance | | X | (2) | (solid) | (liquid) | (gas) | | Measured | (3) |
| Vapor Pressure @ Temperature | | | °C | | | | | Torr | | | |
| Density/relative dens | sity | | | X | | 0.98 | | g/cm | 3 | Measured | |
| Solubility | | | | | | | | | | | |
| @ Tempera | ature | | °C | | | | | g/L | | | |
| Sol | vent | | | | | | | | | | |
| Solubility in Water @ Temperature | 0 | | °C | | | | | g/L | | | |
| Melting Temperature | Э | | | | | | | °C | | | |
| Boiling / Sublimation emperature @ | 1 | | Torr | | | | | °C | | | |
| Spectra | | | | | | | | | | | |
| Dissociation constar | nt | | | | | | | | | | |
| Octanol / water parti | tion c | oefficient | | | | | | | | | |
| Henry's Law constar | nt | | | | | | | | | | |
| Volatilization from w | ater | | | | | | | | | | |
| Volatilization from so | oil | | | | | | | | | | |
| oH@ concentration | | | | | | | | | | | |
| Flammability | | X | | Flash poi | nt > 400°F | | | Measured | | | |
| Explodability | | | | | | | | | | | |
| Adsorption / Coefficient | | | | | | | | | | | |
| Particle Size Distribu | ution | | | | | | | | | | |
| Other – Specify | Visco | esity @ 25C | | X | | 1,500 cP | | | | Measured | |